

Plastics piping systems - Unplasticized poly(vinyl chloride) (PVC-U) pipes, fittings and material - Method for assessment of the PVC content based on the total chlorine content

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 1905:2001 sisaldab Euroopa standardi EN 1905:1998 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.06.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 1905:2001 consists of the English text of the European standard EN 1905:1998.</p> <p>This document is endorsed on 18.06.2001 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This standard specifies a method for assessing the poly(vinyl chloride) (PVC) content in reprocessable and recyclable unplasticized (PVC-U) materials or materials derived from PVC-U products. In this standard, only the method for calculation of the PVC content is described, while for the determination of the chlorine content reference is made to prEN ISO 1158:1997. If the material contains or is supposed to contain chlorinated poly(vinyl chloride) (PVC-C) or chlorinated polyethylene (PE-C), an apparent PVC content is calculated.</p>	<p>Scope:</p> <p>This standard specifies a method for assessing the poly(vinyl chloride) (PVC) content in reprocessable and recyclable unplasticized (PVC-U) materials or materials derived from PVC-U products. In this standard, only the method for calculation of the PVC content is described, while for the determination of the chlorine content reference is made to prEN ISO 1158:1997. If the material contains or is supposed to contain chlorinated poly(vinyl chloride) (PVC-C) or chlorinated polyethylene (PE-C), an apparent PVC content is calculated.</p>
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ICS 23.040.60

Võtmesõnad: chemical analysis, determination of content, pipe fittings, plastic tubes, polyvinyl chloride, unplasticized polyvinyl chloride, water pipelines, water supply

ICS 83.140.30

Descriptors: Plastics, piping systems, PVC content, chlorine content, testing.

English version

Plastics piping systems

**Unplasticized poly(vinyl chloride) (PVC-U) pipes,
fittings and material**

Method for assessment of the PVC content based on total
chlorine content

Systèmes de canalisations en
plastiques – Tubes, raccords et
matières en poly(chlorure de vinyle)
non plastifié (PVC-U) – Méthode
d'évaluation de la teneur en PVC sur
la base de la teneur totale en chlore

Kunststoff-Rohrleitungssysteme –
Rohre, Formstücke und Werkstoff aus
weichmacherfreiem Polyvinylchlorid
(PVC-U) – Verfahren zur Bestimmung
des PVC-Gehaltes auf der Basis des
Gesamtchlorgehaltes

This European Standard was approved by CEN on 1998-11-23.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 155 "Plastics piping systems and ducting systems", the secretariat of which is held by NNI.

This standard is based on a document prepared by TC 138/SC 1 AHG "PVC Material" from the International Standardization Organisation (ISO).

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 1999, and conflicting national standards shall be withdrawn at the latest by June 1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

This standard is one of a series of standards on test methods which support System Standards for plastics piping systems and ducting systems.

1 Scope

This standard specifies a method for assessing the poly(vinyl chloride) (PVC) content in reprocessible and recyclable unplasticized (PVC-U) materials or materials derived from PVC-U products.

In this standard, only the method for calculation of the PVC content is described, while for the determination of the chlorine content reference is made to prEN ISO 1158:1997. If the material contains or is supposed to contain chlorinated poly(vinyl chloride) (PVC-C) or chlorinated polyethylene (PE-C), an apparent PVC content is calculated.

2 Normative references

This standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter.

For dated references, subsequent amendments to, or revisions of, any of these publications apply to this standard only when incorporated in it by amendment or revision.

For undated references the latest edition of the publication referred to applies.

prEN ISO 1158:1997 *Plastics - Vinyl chloride homopolymers and copolymers - Determination of chloride (ISO/DIS 1158:1997)*

EN ISO 3451-5:1996 *Plastics - Determination of ash - Part 5: Poly(vinyl chloride) (ISO 3451-5:1989)*

3 Principle

An assessment of the PVC content, taking into account the presence of fillers, additives and, if applicable, other polymers, is made by calculation based on the chlorine content determined in accordance with prEN ISO 1158:1997.

NOTE: It is assumed that the following test parameter is set by the standard making reference to this standard:

- the sampling procedure, applicable to pipes, fittings or material (see clause 4).

4 Test pieces

Test pieces, appropriate to the method(s) used (see clause 5 and associated notes), shall be prepared from samples taken in accordance with the referring standard from a pipe, fitting or material, as applicable.